

## Abstract

An antenna pattern having a broad band characteristic as to frequencies and having a wide directivity, and an electromagnetic wave energy processing device having the antenna pattern, particularly a sheet-like antenna or electromagnetic wave shielding filter. A conductor wire forming the antenna pattern comprises an aggregated wire consisting of mesh or continuously polygonal micro-image element lines or parallel element lines. The element lines are 5-300  $\mu\text{m}$  in line width and 5-1,000  $\mu\text{m}$  in line pitch interval, or the most preferably 5-30  $\mu\text{m}$  in line width and 5-150  $\mu\text{m}$  in line pitch interval. The element lines are printed with printing ink or paste material mixed with conductive powder. In accordance with necessity, pressure treatment or polishing treatment and/or conductive plating with aid of eletroless plating or directly without aid of eletroless plating are performed on the printed surface.